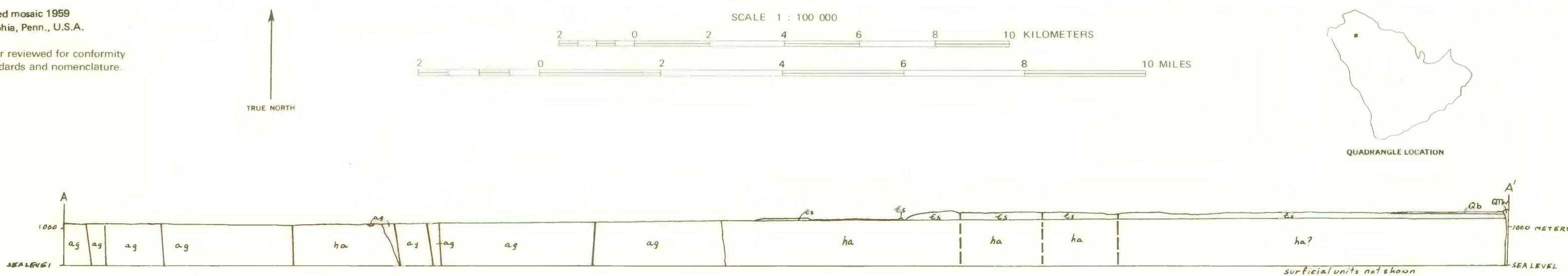


- DESCRIPTION OF MAP UNITS
- Qu SURFICIAL DEPOSITS, UNDIVIDED--Undifferentiated alluvial, colluvial, and eolian surficial deposits
 - Qsb SABKAH DEPOSITS--Salt-saturated fine sand and mud
 - Qes EOLIAN SAND--Orange to buff dune deposits. Sand pattern overlay denotes thin sand cover over bedrock
 - Qb QTb QTbv BASALT--Medium-gray to black alkali-olivine basalt, hawaiite, and mugearite. Occurs as cinder cones (QTbv) and aa- and pahoehoe-type flows. Ranges in age from 9 Ma to Holocene. Cones and flows (Qb) erupted approximately 1800 A.D. (1220 A.H.) Relative ages of flows and cinder cones shown by Roman numerals. Sand pattern overlay indicates flows overlain by thin sand cover (Qes). Unit includes basaltic dikes (---)
 - Ttr DIFFERENTIATED VOLCANIC ROCKS--Trachyte, rhyolite, and rhyolite tuff; occurs as small volcanic necks and associated flows, tuffs, and dikes (---)
 - GS SIQ SANDSTONE--Dark-red, reddish-brown, and buff, medium-grained to conglomeratic, thick-bedded and strongly crossbedded quartz sandstone and siltstone. Sand pattern, thin sand cover (Qes); --- conglomerate
 - ag ALKALI-FELDSPAR GRANITE--Red, coarse-grained; composed of perthite, quartz, and accessory biotite, sphene, apatite, and zircon. Subhorizontal sheets of quartz diorite (not mapped) in massif near southwestern corner of quadrangle
 - ha m HULAYFAH GROUP--Trachyandesite flows and plugs, agglomerate, graywacke, and coarse-grained, black marble (m)

- SYMBOLS
- CONTACT--Dotted where concealed
 - FAULT--Dashed where inferred; dotted where concealed
 - CINDER CONE
 - FLOW LINEATION

Aerial photography 1956, controlled mosaic 1959
AeroService Corporation, Philadelphia, Penn., U.S.A.
This report has not been edited or reviewed for conformity
with U.S. Geological Survey standards and nomenclature.

Geology mapped November 1961-
March 1962



RECONNAISSANCE GEOLOGIC MAP OF THE JABAL KHATAM QUADRANGLE, SHEET 26/39 D, KINGDOM OF SAUDI ARABIA

by
George M. Fairer
1983

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been reviewed for conformity with U.S.
Geological Survey editorial standards
and stratigraphic nomenclature.